## ABSTRACT OF THE DISCLOSURE

Systems and methods of generating and manipulating an ultrasound beam are disclosed. The
methods include using selective sets of ultrasound elements to generate an ultrasound beam,
scanning the beam over a series of ultrasound elements in order to collected echo data covering
an area, and generating an image from the resulting data. The scanning process includes shifting
the set of ultrasound elements used to form the ultrasound beam by more then one ultrasound
element (block-switching) between each step in the scanning process. This is accomplished
without loss of image resolution by using area-forming techniques. The block-switching
technique enables use of cross-correlation methods during image construction.